

Please amend the claims as follows:

1. (currently amended) ~~Gas~~ A gas turbine plant, comprising:
a compressor (C), a turbine (T) and a reactor (R) for heating air, in which air is compressed in the compressor (C) and together with a fuel is delivered to the reactor in order to maintain combustion, and in which the air heated in the reactor drives the turbine (T),
~~characterised in that~~ wherein control of ~~the~~ a load of the turbine (T) ~~consists of~~ comprises controlling ~~the~~ an inlet temperature to the turbine (T) by mixing hot air from the reactor (R) with air from the compressor by means of a regulating valve (V) arranged between ~~the~~ an outlet of the compressor (C) and the inlet of the ~~gas~~ turbine (T).
2. (currently amended) ~~Gas~~ The gas turbine plant according to ~~Claim 1, characterised in that~~ claim 1, wherein the reactor (R) is an MCM reactor.
3. (currently amended) ~~Gas~~ The gas turbine plant according to ~~either of Claims 1 or 2, characterised in that~~ claim 1, wherein the regulating valve (V) is fitted in a line which bypasses ~~the~~ an air circuit of the reactor (R).
4. (currently amended) ~~Gas~~ The gas turbine plant according to ~~Claim 3, characterised in that~~ claim 3, wherein the regulating valve is fitted closer to the cooler side of said bypass line.

5. (currently amended) ~~Gas~~ The gas turbine plant according to ~~any one of Claims 2 to 4,~~
~~characterised in that claim 2, wherein~~ the MCM reactor (1) comprises an air circuit which leads
air from the compressor (C) along a first side of a membrane (M), which transports oxygen from
the air to a hot gas on the other opposite side of the membrane and ~~that wherein~~ as the air in the
air circuit passes through the reactor it is heated by a heat exchanger (VXX) inside the reactor.
(1)

6. (currently amended) ~~Gas~~ The gas turbine plant according to ~~Claim 5, characterised in~~
~~that claim 5, wherein~~ the reactor (1) comprises a sweep circuit (5), which includes at least one
burner (4) in which the fuel is burned and generates a hot gas in the sweep circuit, and ~~that~~
wherein the hot gas is led through the reactor on the other side of said membrane (M), where it is
enriched with oxygen and the hot gas in the sweep circuit gives off heat to the air in the heat
exchanger (VXX) before the cooled gas is delivered to an outlet (6).

7. (currently amended) ~~Gas~~ The gas turbine plant according to ~~Claim 6, characterised in~~
~~that claim 6, wherein~~ the sweep circuit comprises a blow-off valve (7).

8. (currently amended) ~~Gas~~ The gas turbine plant according to ~~any one of Claims 5 to 7,~~
~~characterised in that claim 5, wherein~~ the air circuit comprises an air blow-off valve (8).

9. (currently amended) ~~Gas~~ The gas turbine plant according to ~~Claim 1, characterised in~~
~~that claim 1, wherein~~ the reactor (1) is kept at a temperature corresponding to the full load of the
reactor.

10. (currently amended) ~~Gas~~ The gas turbine plant according to ~~Claim 9~~, characterised in that claim 9, wherein said temperature is maintained by controlling the flow of air and fuel through the reactor.

11. (currently amended) ~~Method~~ A method of controlling the load in a gas turbine plant, comprising ~~the following steps~~:

air is compressed in a compressor (~~C~~),

the compressed air is led through an air circuit in a reactor (~~1~~) which comprises an MCM membrane (~~M~~),

a fuel is delivered to a burner (~~4~~) in a sweep circuit (~~5~~) in the reactor (~~1~~) where a hot gas is formed by a combustion in the burner,

the hot gas is made to give off heat to the air in the air circuit via a heat exchanger in the reactor (~~1~~),

in the reactor (~~1~~) the hot gas is enriched with oxygen which is transported to the sweep circuit from the air in the air circuit via the membrane (~~M~~),

the air heated in the reactor (~~1~~) is led off to an inlet of a gas turbine (~~T~~) in order to drive the gas turbine, ~~the method being characterised in that~~:

~~control of the~~ controlling a load in the plant ~~is achieved~~ by controlling a regulating valve ~~V~~, which allows air direct from the outlet of the compressor (~~C~~) to be mixed with hot air from the reactor (~~1~~), so that the temperature of the air to the inlet of the gas turbine (~~T~~) can be controlled as a function of the load uptake from the gas turbine (~~1~~).

12. (currently amended) ~~Method~~ The method according to ~~Claim 11~~, characterised in ~~that claim 11, wherein~~ the regulating valve sets the temperature at the inlet to the gas turbine to between 450°C and 1250°C.

13. (currently amended) ~~Method~~ The method according to ~~Claim 11 or 12~~, characterised ~~in that claim 11, wherein~~ the reactor (1) is allowed to operate at a temperature corresponding to full load when controlling load changes of the gas turbine (T).

14. (currently amended) ~~Method~~ The method according to ~~Claim 11~~, characterised in ~~that claim 11, wherein~~ a rapid shutdown of the plant can be achieved by fully opening the regulating valve (V) so that virtually all the air from the compressor bypasses the reactor (1).

15. (currently amended) ~~Method~~ The method according to ~~Claim 11~~, characterised in ~~that claim 11, wherein~~ a rapid shutdown of the gas turbine (T) can be achieved by fully opening the regulating valve (V) so that virtually all the air from the compressor bypasses the reactor (1).